CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: February 23, 2010

REFERENCE NO.: 060204

PROJECT NAME: 2301-2307 Lincoln Avenue, Alameda

TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED
2:45 pm, Feb 24, 2010
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

Sent via:
- ☐ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☒ Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report – Fourth Quarter 2009

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

COMMENTS:
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Avenue, Carson, CA 90810
Alan A. and Beverly M. Sebanc, Trustees, 2805 Ralston Avenue, Hillsborough, CA 94010
Jake Torrens, AMEC Geomatrix, Inc., 2101 Webster Street, 12th Floor, Oakland, CA 94612

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

Denis L. Brown
Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: 2301-2307 Lincoln Avenue
Alameda, California
SAP Code 165255
Incident No. 97767044
ACEH No. RO0002971

Dear Mr. Wickham,

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

Denis L. Brown
Project Manager

GROUNDWATER MONITORING REPORT - FOURTH QUARTER 2009

FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

SAP CODE 165255
INCIDENT NO. 97767044
AGENCY NO. RO0002971

Prepared by:
Conestoga-Rovers & Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: http://www.CRAworld.com

FEBRUARY 23, 2010
REF. NO. 060204 (9)
This report is printed on recycled paper.

TABLE OF CONTENTS

LIST OF FIGURES
(Following Text)

LIST OF APPENDICES

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

1.1 SITE INFORMATION

Site Address	2301-2307 Lincoln Avenue, Alameda
Site Use	Strip mall
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0002971
Shell SAP Code	165255
Shell Incident No.	97767044

Date of most recent agency correspondence was January 12, 2010.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for the site.

CRA prepared a vicinity map (Figure 1) and a groundwater contour and chemical concentration map (Figure 2). Blaine's report, presenting the analytical data, is included in Appendix A.

As discussed during CRA's September 4, 2009 telephone conversation with Alameda County Environmental Health (ACEH), CRA submitted a *Revised Subsurface Investigation Work Plan* on November 23, 2009 to replace our August 27, 2009 *Subsurface Investigation Work Plan.*

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Variable
Hydraulic Gradient	Variable
Depth to Water	7.62 to 8.86 feet below top of well casing

2.3 PROPOSED ACTIVITIES

CRA will proceed with the investigation proposed in our November 23, 2009 *Revised Subsurface Investigation Work Plan* with the modifications requested in ACEH's January 12, 2010 letter, which conditionally approves the work plan. CRA will submit a subsurface investigation report by May 21, 2010.

Blaine will gauge and sample wells according to the revised monitoring program for this site outlined below. This site will be monitored semiannually during the second and fourth quarters, and CRA will issue groundwater monitoring reports semiannually following the sampling events.

2.4 DISCUSSION

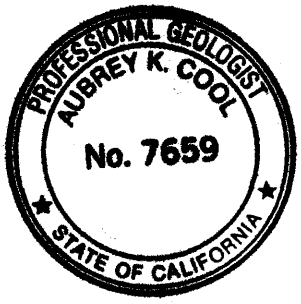
CRA sampled all monitoring wells quarterly for one hydrologic cycle (1 year, through the fourth quarter of 2009) and, as approved in ACEH's July 24, 2009 letter and per State Water Resources Control Board Resolution 2009-0042 adopted May 19, 2009, we will implement a semiannual monitoring and reporting schedule at the site, with sampling conducted during the second and fourth quarters.

Once the proposed groundwater monitoring well (MW-9) is installed, it will be sampled quarterly for one hydrologic cycle.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

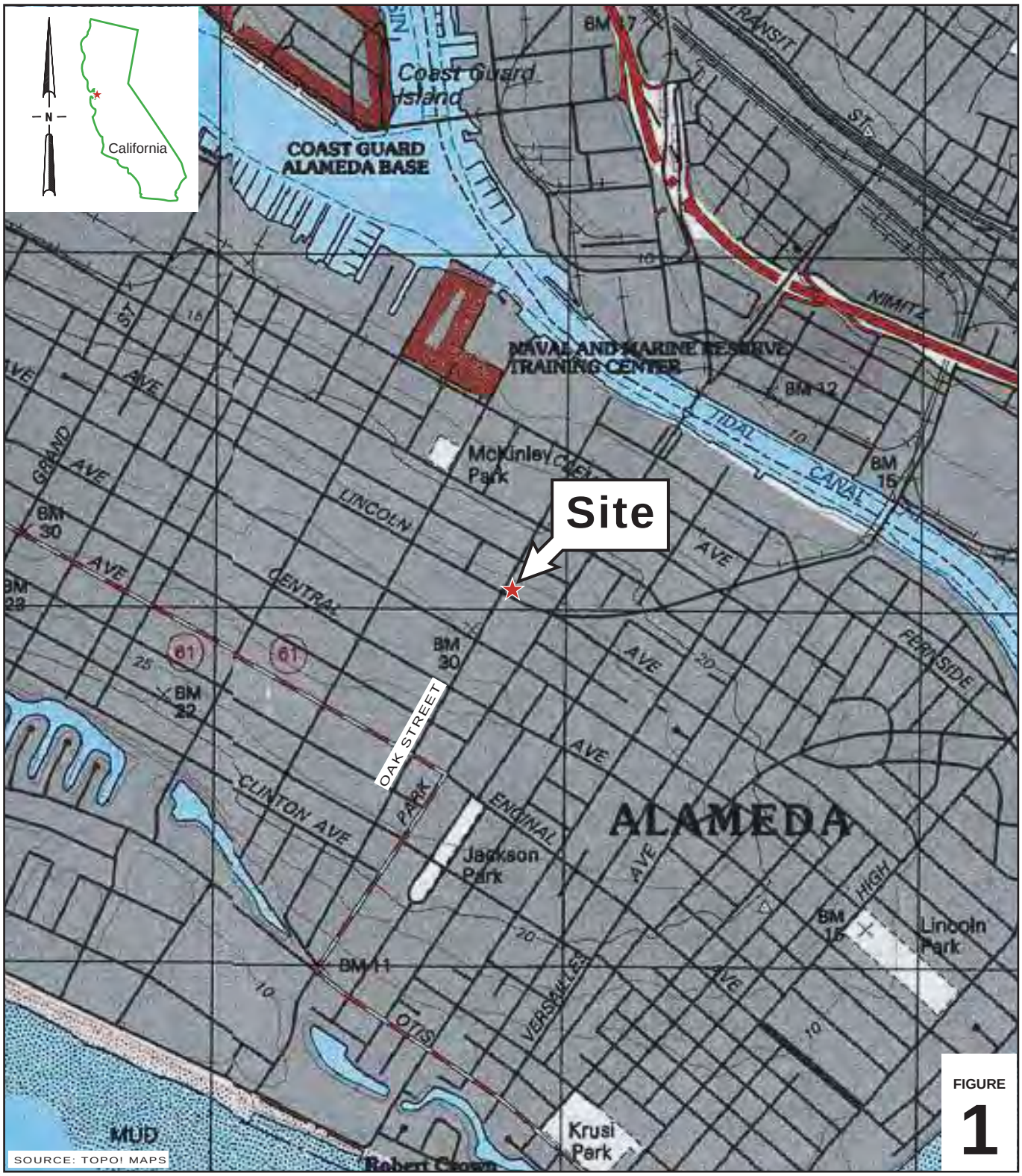
Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG



FIGURES

12/01/08



I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 VICINITY.AI

FIGURE
1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Former Shell Service Station

2301-2307 Lincoln Avenue

Alameda, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

02/09/10

Groundwater Contour and Chemical Concentration Map

December 23, 2009

EXPLANATION

- B-6 — Proposed soil boring location
- MW-9 — Proposed monitoring well location
- MW-1 — Monitoring well location
- Electrical & Telecommunications line (E)
- Telecommunications & Cable TV line (T)
- Gas line (G)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)

Sources:
1. Sanborn Fire Insurance Map, 1950
2. Majors Civil Engineering, 1982

XX.XX — Groundwater elevation contour, in feet above mean sea level (msl)

Well
ELEV
TPHg
Benzene

- Well designation
- Groundwater elevation, in feet above msl
- TPHg and benzene concentrations are in micrograms per liter

Notes:
ND = Not detected

OAK STREET

LINCOLN AVENUE

Former 76 Station

Former Shell Station
2301-2307 Lincoln Avenue

Former Gasoline & Oil USTs (installed in 1920s)

Former Building (circa 1950)[1]

Former Tire Recapping Facility (circa 1950)[1]

7-11 Store Building

Former Building (circa 1950)[1]

Former Oil Sump (circa 1982)[2]

Former Station Building (circa 1982)[2]

Laundorland Building

Commercial Building

Former Dispensers (circa 1982)[2]

Former USTs (installed in 1970s)

Alameda County Police Dept.

Alameda Free Library

Sidewalk

Parking

Property Line

Overhead

Well	ELEV	TPHg	Benzene
MW-1	17.70	9,700	8.7
MW-2	18.05	ND	ND
MW-3	17.94	ND	ND
MW-4	17.75	2,700	200
MW-5	17.82	ND	ND
MW-6	17.84	ND	ND
MW-7	17.83	ND	ND
MW-8	18.07	ND	ND
MW-9			

17.70 17.80 17.90 18.00

N

0 15 30 60

Scale (ft)

Basemap modified from data from Virgil Chavez Land Surveying and drawing provided by Geomatrix

FIGURE

2

Former Shell Service Station

2301-2307 Lincoln Avenue

Alameda, California

CONESTOGA-ROVERS & ASSOCIATES

I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204-REPORTS\060204-RPT9-4Q09\060204 4QM09-GW.DWG

APPENDIX A

BLAINE TECH SERVICES, INC. – GROUNDWATER MONITORING REPORT

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

January 11, 2010

Denis Brown
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

Fourth Quarter 2009 Groundwater Monitoring at
Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, CA

Monitoring performed on December 23, 2009

Groundwater Monitoring Report **091223-IW-1**

This report covers the routine monitoring of groundwater wells at this former Shell service station. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Mike Ninokata
Project Manager

MN/np

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Conestoga-Rovers & Associates
5900 Hollis St., Suite A
Emeryville, CA 94608

WELL CONCENTRATIONS
2301-2307 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	3/16/2009	NA	NA	NA	NA	NA	25.77	8.24	17.53
MW-1	3/27/2009	13,000	9.7	<10	<10	<10	25.77	7.09	18.68
MW-1	5/22/2009	3,900	2.6	<2.0	<2.0	<2.0	25.77	7.70	18.07
MW-1	9/23/2009	17,000	8.1	<10	<10	<10	25.77	9.27	16.50
MW-1	**12/23/2009**	**9,700**	**8.7**	**<10**	**<10**	**<10**	**25.77**	**8.07**	**17.70**
MW-2	3/16/2009	NA	NA	NA	NA	NA	26.09	8.54	17.55
MW-2	3/27/2009	<50	<0.50	<1.0	<1.0	<1.0	26.09	8.16	17.93
MW-2	5/22/2009	<50	<0.50	<1.0	<1.0	<1.0	26.09	7.88	18.21
MW-2	9/23/2009	<50	<0.50	<1.0	<1.0	<1.0	26.09	9.21	16.88
MW-2	**12/23/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**26.09**	**8.04**	**18.05**
MW-3	3/16/2009	NA	NA	NA	NA	NA	25.56	6.06	19.50
MW-3	3/27/2009	<50	<0.50	<1.0	<1.0	<1.0	25.56	6.37	19.19
MW-3	5/22/2009	<50	<0.50	<1.0	<1.0	<1.0	25.56	7.35	18.21
MW-3	9/23/2009	64	<0.50	<1.0	<1.0	<1.0	25.56	8.79	16.77
MW-3	**12/23/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**25.56**	**7.62**	**17.94**
MW-4	3/16/2009	NA	NA	NA	NA	NA	26.60	7.43	19.17
MW-4	3/27/2009	3,900	170	25	190	360	26.60	7.50	19.10
MW-4	5/22/2009	3,500	280	19	270	220	26.60	8.43	18.17
MW-4	9/23/2009	920	170	3.4	14	16	26.60	9.90	16.70
MW-4	**12/23/2009**	**2,700**	**200**	**5.5**	**190**	**56**	**26.60**	**8.85**	**17.75**

WELL CONCENTRATIONS
2301-2307 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-5	3/16/2009	NA	NA	NA	NA	NA	26.63	7.21	19.42
MW-5	3/27/2009	<50	<0.50	<1.0	<1.0	<1.0	26.63	7.74	18.89
MW-5	5/22/2009	<50	<0.50	<1.0	<1.0	<1.0	26.63	8.42	18.21
MW-5	9/23/2009	<50	<0.50	<1.0	<1.0	<1.0	26.63	9.89	16.74
MW-5	**12/23/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**26.63**	**8.81**	**17.82**
MW-6	3/16/2009	NA	NA	NA	NA	NA	26.61	7.31	19.30
MW-6	3/27/2009	<50	<0.50	<1.0	<1.0	<1.0	26.61	7.82	18.79
MW-6	5/22/2009	<50	<0.50	<1.0	<1.0	<1.0	26.61	8.43	18.18
MW-6	9/23/2009	<50	<0.50	<1.0	<1.0	<1.0	26.61	9.87	16.74
MW-6	**12/23/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**26.61**	**8.77**	**17.84**
MW-7	3/16/2009	NA	NA	NA	NA	NA	26.69	7.35	19.34
MW-7	3/27/2009	54	<0.50	<1.0	<1.0	<1.0	26.69	7.62	19.07
MW-7	5/22/2009	<50	<0.50	<1.0	<1.0	<1.0	26.69	8.50	18.19
MW-7	9/23/2009	<50	<0.50	<1.0	<1.0	<1.0	26.69	10.00	16.69
MW-7	**12/23/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**26.69**	**8.86**	**17.83**
MW-8	3/16/2009	NA	NA	NA	NA	NA	26.05	6.81	19.24
MW-8	3/27/2009	<50	<0.50	<1.0	<1.0	<1.0	26.05	7.04	19.01
MW-8	5/22/2009	<50	<0.50	<1.0	<1.0	<1.0	26.05	7.76	18.29
MW-8	9/23/2009	<50	<0.50	<1.0	<1.0	<1.0	26.05	9.27	16.78
MW-8	**12/23/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**26.05**	**7.98**	**18.07**

WELL CONCENTRATIONS
2301-2307 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

ND = Not detected

Calscience
Environmental
Laboratories, Inc.

January 07, 2010

Michael Ninokata
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.:** **09-12-2118**
Client Reference: **2301 - 2307 Lincoln Ave., Alameda, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/24/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Philip Sanelle for

Calscience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	12/24/09
1680 Rogers Avenue	Work Order No:	09-12-2118
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B
	Units:	ug/L

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-12-2118-1-A	12/23/09 11:40	Aqueous	GC/MS W	12/29/09	12/30/09 07:52	091229L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	8.7	5.0	10		Xylenes (total)	ND	10	10	
Ethylbenzene	ND	10	10		TPPH	9700	500	10	
Toluene	ND	10	10						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	96	80-132			1,2-Dichloroethane-d4	99	80-141		
Toluene-d8	103	80-120			Toluene-d8-TPPH	105	88-112		
1,4-Bromofluorobenzene	104	76-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	09-12-2118-2-A	12/23/09 11:00	Aqueous	GC/MS W	12/29/09	12/30/09 08:21	091229L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	96	80-132			1,2-Dichloroethane-d4	101	80-141		
Toluene-d8	99	80-120			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	99	76-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	09-12-2118-3-A	12/23/09 11:20	Aqueous	GC/MS W	12/29/09	12/30/09 08:50	091229L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	97	80-132			1,2-Dichloroethane-d4	103	80-141		
Toluene-d8	99	80-120			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	99	76-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	12/24/09
1680 Rogers Avenue	Work Order No:	09-12-2118
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B
	Units:	ug/L

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-12-2118-4-A	12/23/09 12:35	Aqueous	GC/MS W	12/29/09	12/30/09 09:19	091229L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	200	1.0	2		Xylenes (total)	56	2.0	2	
Ethylbenzene	190	2.0	2		TPPH	2700	100	2	
Toluene	5.5	2.0	2						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	98	80-132			1,2-Dichloroethane-d4	101	80-141		
Toluene-d8	99	80-120			Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	101	76-120							

MW-5	09-12-2118-5-A	12/23/09 11:50	Aqueous	GC/MS W	12/30/09	12/30/09 14:34	091230L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	94	80-132			1,2-Dichloroethane-d4	100	80-141		
Toluene-d8	100	80-120			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	98	76-120							

MW-6	09-12-2118-6-A	12/23/09 12:05	Aqueous	GC/MS W	12/30/09	12/30/09 16:01	091230L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	96	80-132			1,2-Dichloroethane-d4	98	80-141		
Toluene-d8	100	80-120			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	97	76-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	12/24/09
1680 Rogers Avenue	Work Order No:	09-12-2118
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B
	Units:	ug/L

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	**09-12-2118-7-A**	**12/23/09 12:20**	**Aqueous**	**GC/MS W**	**12/30/09**	**12/30/09 16:30**	**091230L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	94	80-132			1,2-Dichloroethane-d4	102	80-141		
Toluene-d8	100	80-120			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	99	76-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	**09-12-2118-8-A**	**12/23/09 12:15**	**Aqueous**	**GC/MS W**	**12/30/09**	**12/30/09 16:59**	**091230L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	80-132			1,2-Dichloroethane-d4	104	80-141		
Toluene-d8	97	80-120			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	99	76-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-3,065**	**N/A**	**Aqueous**	**GC/MS W**	**12/29/09**	**12/30/09 02:05**	**091229L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	97	80-132			1,2-Dichloroethane-d4	98	80-141		
Toluene-d8	100	80-120			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	98	76-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 12/24/09
Work Order No: 09-12-2118
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-3,067**	**N/A**	**Aqueous**	**GC/MS W**	**12/30/09**	**12/30/09 14:05**	**091230L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	95	80-132		1,2-Dichloroethane-d4	100	80-141	
Toluene-d8	101	80-120		Toluene-d8-TPPH	101	88-112	
1,4-Bromofluorobenzene	97	76-120					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.	Date Received: 12/24/09
1680 Rogers Avenue	Work Order No: 09-12-2118
San Jose, CA 95112-1105	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-12-2082-1	Aqueous	GC/MS W	12/29/09	12/29/09	091229S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	93	72-120	1	0-20	
Carbon Tetrachloride	83	89	63-135	7	0-20	
Chlorobenzene	97	98	80-120	1	0-20	
1,2-Dibromoethane	96	103	80-120	6	0-20	
1,2-Dichlorobenzene	94	95	80-120	2	0-20	
1,1-Dichloroethene	94	96	60-132	2	0-24	
Ethylbenzene	98	99	78-120	1	0-20	
Toluene	93	93	74-122	0	0-20	
Trichloroethene	98	96	69-120	2	0-20	
Vinyl Chloride	83	86	58-130	3	0-20	
Methyl-t-Butyl Ether (MTBE)	93	97	72-126	3	0-21	
Tert-Butyl Alcohol (TBA)	90	91	72-126	2	0-20	
Diisopropyl Ether (DIPE)	98	99	71-137	0	0-23	
Ethyl-t-Butyl Ether (ETBE)	96	97	74-128	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	97	99	76-124	3	0-20	
Ethanol	101	90	35-167	12	0-48	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.	Date Received: 12/24/09
1680 Rogers Avenue	Work Order No: 09-12-2118
San Jose, CA 95112-1105	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-5	Aqueous	GC/MS W	12/30/09	12/30/09	091230S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	95	93	72-120	2	0-20	
Carbon Tetrachloride	78	87	63-135	11	0-20	
Chlorobenzene	97	98	80-120	1	0-20	
1,2-Dibromoethane	98	102	80-120	3	0-20	
1,2-Dichlorobenzene	95	94	80-120	0	0-20	
1,1-Dichloroethene	94	96	60-132	2	0-24	
Ethylbenzene	97	99	78-120	2	0-20	
Toluene	96	93	74-122	4	0-20	
Trichloroethene	97	95	69-120	1	0-20	
Vinyl Chloride	86	81	58-130	6	0-20	
Methyl-t-Butyl Ether (MTBE)	96	98	72-126	2	0-21	
Tert-Butyl Alcohol (TBA)	87	97	72-126	11	0-20	
Diisopropyl Ether (DIPE)	97	100	71-137	4	0-23	
Ethyl-t-Butyl Ether (ETBE)	94	98	74-128	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	97	96	76-124	1	0-20	
Ethanol	117	107	35-167	9	0-48	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 09-12-2118
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-3,065	Aqueous	GC/MS W	12/29/09	12/30/09	091229L02

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	96	96	80-122	73-129	0	0-20	
Carbon Tetrachloride	86	91	68-140	56-152	5	0-20	
Chlorobenzene	98	99	80-120	73-127	1	0-20	
1,2-Dibromoethane	100	102	80-121	73-128	2	0-20	
1,2-Dichlorobenzene	94	95	80-120	73-127	0	0-20	
1,1-Dichloroethene	98	98	72-132	62-142	1	0-25	
Ethylbenzene	98	99	80-126	72-134	1	0-20	
Toluene	97	98	80-121	73-128	1	0-20	
Trichloroethene	98	99	80-123	73-130	1	0-20	
Vinyl Chloride	93	96	67-133	56-144	4	0-20	
Methyl-t-Butyl Ether (MTBE)	100	99	75-123	67-131	1	0-20	
Tert-Butyl Alcohol (TBA)	93	93	75-123	67-131	0	0-20	
Diisopropyl Ether (DIPE)	99	100	71-131	61-141	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	97	98	76-124	68-132	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	100	101	80-123	73-130	0	0-20	
Ethanol	107	97	61-139	48-152	10	0-27	
TPPH	90	90	65-135	53-147	0	0-30	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.		Date Received:	N/A
1680 Rogers Avenue		Work Order No:	09-12-2118
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-3,067	Aqueous	GC/MS W	12/30/09	12/30/09	091230L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	99	98	80-122	73-129	1	0-20	
Carbon Tetrachloride	84	87	68-140	56-152	4	0-20	
Chlorobenzene	100	100	80-120	73-127	1	0-20	
1,2-Dibromoethane	103	105	80-121	73-128	2	0-20	
1,2-Dichlorobenzene	96	95	80-120	73-127	0	0-20	
1,1-Dichloroethene	99	100	72-132	62-142	1	0-25	
Ethylbenzene	101	101	80-126	72-134	0	0-20	
Toluene	98	97	80-121	73-128	1	0-20	
Trichloroethene	102	101	80-123	73-130	1	0-20	
Vinyl Chloride	87	92	67-133	56-144	6	0-20	
Methyl-t-Butyl Ether (MTBE)	100	99	75-123	67-131	1	0-20	
Tert-Butyl Alcohol (TBA)	88	90	75-123	67-131	2	0-20	
Diisopropyl Ether (DIPE)	101	100	71-131	61-141	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	99	99	76-124	68-132	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	102	100	80-123	73-130	1	0-20	
Ethanol	108	97	61-139	48-152	11	0-27	
TPPH	95	89	65-135	53-147	7	0-30	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-12-2118

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☑ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Peter Schaefer 060204
INCIDENT # (ENV SERVICES): 9 7 7 6 7 0 4 4 ☐ CHECK IF NO INCIDENT # APPLIES
PO #:
SAP #:
DATE: 12/23/09
PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services
LOG CODE: BTSS
SITE ADDRESS: Street and City: 2301 - 2307 Lincoln Ave., Alameda
State: CA
GLOBAL ID NO: T06179714590
ADDRESS: 1680 Rogers Ave, San Jose, CA 95112
EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville Office
PHONE NO: (510) 420-3335
E-MAIL: shelledf@craworld.com
CONSULTANT PROJECT NO: 091223-IW-1
BTS #:
PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata - Copy to Shell.Lab.Billing@craworld.com
SAMPLER NAME(S) (Print): IAN WILLIAMS
LAB USE ONLY: 09-12-218
TELEPHONE: (408)573-0555
FAX: (408)573-7771
E-MAIL: mninokata@blainetech.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :
☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	MW-1	12/23/09	1140	W	X					3	X		X											
2	MW-2		1100		X					3	X		X											
3	MW-3		1120		X					3	X		X											
4	MW-4		1235		X					3	X		X											
5	MW-5		1150		X					3	X		X											
6	MW-6		1205		X					3	X		X											
7	MW-7		1220		X					3	X		X											
8	MW-8	↓	1215	↓	X					3	X		X											

Relinquished by: (Signature)	Received by: (Signature)	Date: 12/23/09	Time: 1330
Relinquished by: (Signature)	Received by: (Signature) Tom Malley CEL	Date: 12/23/09	Time: 1500
Relinquished by: (Signature) IW 12-23-09 (730)	Received by: (Signature) CEL	Date: 12/24/09	Time: 0900

06/2/06 Revision

GSO

(2118)

WebShip >>>>>

800-322-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
$0.00

Reference:
BTS

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 513272161

NPS

ORC

D

GARDEN GROVE

D92843A

78109665

Print Date : 12/23/09 16:31 PM

Package 1 of 2

Send Label To Printer | ☑ Print All | Edit Shipment | Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.

STEP 2 - Fold this page in half.

STEP 3 - Securely attach this label to your package, do not cover the barcode.

STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email | Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section.
Our liability for loss or damage to any package is limited to your actual damages or $100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is $500. For other shipments the highest declared value is $10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is $500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-12-2 1 1 8

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BT 5 DATE: 12/04/09

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.0 °C + 0.5 °C (CF) = 2.5 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** YL

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☒ Not Present ☐ N/A **Initial:** YL

☐ Sample ☐_____ ☐ No (Not Intact) ☐ Not Present **Initial:** SO

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** 8

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** _____

Preservative: h: HCL n: HNO3 na$_2$:$Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** 8

WELL GAUGING DATA

Project # 091223-1W-1 Date 12/23/09 Client SHELL

Site 2301-2307 LINCOLN AVE, ALAMEDA, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0742	1					8.07	12.90		
MW-2	0800	1					8.04	12.41		
MW-3	0750	1					7.62	11.53		
MW-4	0831	4					8.85	17.70		
MW-5	0809	4					8.81	17.87		
MW-6	0822	4					8.77	17.80		
MW-7	0844	4					8.86	17.68		
MW-8	0852	4					7.98	17.50		

SHEET WELL MONITORING DATA SHEET

BTS #: 091223-1W-1	Site: 2301-2307 LINCOLN AVE, ALAMEDA
Sampler: 1W	Date: 12/23/09
Well I.D.: MW-1	Well Diameter: 2 3 4 6 8 1"
Total Well Depth (TD): 12.90	Depth to Water (DTW): 8.07
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.04	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other NEW TUBING, CHECK VALVE

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: NEW TUBING, CHECK VALVE

0.20 (Gals.) X	3	=	0.60 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1128	58.3	8.28	476	>1000	0.2	STRONG ODOR
1130	59.6	7.62	518	>1000	0.4	"
1132	59.7	7.60	522	>1000	0.6	"

Did well dewater? Yes (No) Gallons actually evacuated: 0.6

Sampling Date: 12/23/09 Sampling Time: 1140 Depth to Water: 8.92

Sample I.D.: MW-1 Laboratory: (CalScience) Columbia Other

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEL .VELL MONITORING DATA /EET

BTS #: 091223-1W-1	Site: 2301-2307 LINCOLN AVE, ALAMEDA
Sampler: 1W	Date: 12/23/09
Well I.D.: MW-2	Well Diameter: 2 3 4 6 8 1"
Total Well Depth (TD): 12.41	Depth to Water (DTW): 8.04
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.91	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other NEW TUBING, CHECK VALVE

Sampling Method: ~~Bailer~~ 1W; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: NEW TUBING, CHECK VALVE

0.2 (Gals.) X 3 = 0.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1048	56.5	7.96	1537	479	0.2	
1050	57.6	7.29	1410	512	0.4	
1052	57.8	7.26	1398	456	0.6	

Did well dewater? Yes (No) Gallons actually evacuated: 0.6

Sampling Date: 12/23/09 Sampling Time: 1100 Depth to Water: 8.88

Sample I.D.: MW-2 Laboratory: (CalScience) Columbia Other

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEET WELL MONITORING DATA SHEET

BTS #: 091223-1W-1	Site: 2301-2307 LINCOLN AVE, ALAMEDA
Sampler: 1W	Date: 12/23/09
Well I.D.: MW-3	Well Diameter: 2 3 4 6 8 1"
Total Well Depth (TD): 11.53	Depth to Water (DTW): 7.62
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.48	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other NEW TUBING, CHECK VALVE

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: NEW TUBING, CHECK VALVE

0.2 (Gals.) X 3 = 0.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1108	59.6	7.22	812	>1000	0.2	
1110	60.8	7.18	796	>1000	0.4	
1112	60.5	7.17	794	>1000	0.6	

Did well dewater? Yes (No) Gallons actually evacuated: 0.6

Sampling Date: 12/23/09 Sampling Time: 1120 Depth to Water: 8.44

Sample I.D.: MW-3 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEL .VELL MONITORING DATA .EET

BTS #: 091223-1W-1	Site: 2301-2307 LINCOLN AVE, ALAMEDA
Sampler: 1W	Date: 12/23/09
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 17.70	Depth to Water (DTW): 8.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.62	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

5.8	(Gals.) X	3	=	17.4	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1032	64.5	7.04	1249	317	5.8	ODOR
1033	66.7	6.89	1243	153	11.6	"
1034	66.7	6.92	1250	175	17.4	" DTW=12.76

Did well dewater? Yes (No) Gallons actually evacuated: 17.4

Sampling Date: 12/23/09 Sampling Time: 1235 Depth to Water: 8.90

Sample I.D.: MW-4 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEET WELL MONITORING DATA SHEET

BTS #: 091223-1W-1	Site: 2301-2307 LINCOLN AVE, ALAMEDA
Sampler: 1W	Date: 12/23/09
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 17.87	Depth to Water (DTW): 8.81
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.63	

Purge Method:
- Bailer
- Disposable Bailer
- Positive Air Displacement
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method:
- X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

5.9 (Gals.) X 3 = 17.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0910	65.7	7.76	764	54	5.9	
0911	68.0	7.81	778	113	11.8	
0912	68.2	7.83	774	273	17.7	DTW = 12.86

Did well dewater? Yes (No) Gallons actually evacuated: 17.7

Sampling Date: 12/23/09 Sampling Time: 1150 Depth to Water: 8.85

Sample I.D.: MW-5 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEL /ELL MONITORING DAT/ /EET

BTS #: 091223-1W-1	Site: 2301-2307 LINCOLN AVE, ALAMEDA
Sampler: 1W	Date: 12/23/09
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 17.80	Depth to Water (DTW): 8.77
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.58	

Purge Method:
- Bailer
- Disposable Bailer
- Positive Air Displacement
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method:
- X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

5.9 (Gals.) X 3 = 17.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0929	62.9	7.75	795	31	5.9	
0930	67.9	7.44	772	127	11.8	
0931	68.1	7.49	779	65	17.7	DTW = 15.02

Did well dewater? Yes (No) Gallons actually evacuated: 17.7

Sampling Date: 12/23/09 Sampling Time: 1205 Depth to Water: 8.82

Sample I.D.: MW-6 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEL /ELL MONITORING DAT/ IEET

BTS #: 091223-1W-1	Site: 2301-2307 LINCOLN AVE, ALAMEDA
Sampler: 1W	Date: 12/23/09
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 17.68	Depth to Water (DTW): 8.86
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.63	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

5.8 (Gals.) X	3	=	17.4 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1006	65.1	6.99	781	88	5.8	
1007	66.6	7.02	797	162	11.6	
1008	66.9	7.06	792	190	17.4	DTW = 15.52

Did well dewater? Yes (No) Gallons actually evacuated: 17.4

Sampling Date: 12/23/09 Sampling Time: 1220 Depth to Water: 8.87

Sample I.D.: MW-7 Laboratory: (CalScience) Columbia Other____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHEET WELL MONITORING DATA SHEET

BTS #: 091223-1W-1	Site: 2301-2307 LINCOLN AVE, ALAMEDA
Sampler: 1W	Date: 12/23/09
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 17.50	Depth to Water (DTW): 7.98
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.88	

Purge Method:
- Bailer
- Disposable Bailer
- Positive Air Displacement
- ✓ Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method:
- ✓ Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

6.2	(Gals.) X	3	=	18.6	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0949	60.6	7.46	462	132	6.2	
0950	63.7	7.38	382	462	12.4	
0951	63.9	7.34	388	770	18.6	DTW=14.71

Did well dewater? Yes (No) Gallons actually evacuated: 18.6

Sampling Date: 12/23/09 Sampling Time: 1215 Depth to Water: 8.10

Sample I.D.: MW-8 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV